

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,031,493 B2  
APPLICATION NO. : 09/983031  
DATED : April 18, 2006  
INVENTOR(S) : Peter Alleine Fletcher et al.

Page 1 of 4

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

ON THE TITLE PAGE

At Item (57), Abstract, Line 15, "(830,950)" should read --(830,950).--.

COLUMN 1

Line 16, "distributions" should read --distribution,--.

Line 18, "authors" should read --authors.--.

COLUMN 2

Line 3, "step" should read --steps--.

Line 26, "step" should read --steps--.

Line 32, "constant;" should read --constant; and--.

Line 59, "step" should read --steps--.

COLUMN 4

Line 9, "watermarking" should read --watermarking--.

Line 13, "functions" should read --function,--.

Line 44, "resealed" should read --rescaled--.

COLUMN 5

Line 33, " $|I_{mn}|$ " should read -- $|I_{mn}|$ --.

COLUMN 8

Line 31, " $F^m$ " should read -- $F^*$ --, and "G" should read -- $G$ --.

Line 36, " $F^m$ " should read -- $F^*$ --.

Line 39, " $\Theta$ " (all occurrences) should read -- $\otimes$ --.

Line 40, " $\Theta$ " (all occurrences) should read -- $\otimes$ --.

Line 56, " $\alpha_m$ " should read -- $\alpha_n$ --.

Line 61, " $q^{iam}$ " should read -- $q^{ian}$ --, and " $\alpha_m-\alpha_m$ " should read -- $\alpha_m-\alpha_n$ --.

COLUMN 9

Line 39, "xdefines" should read --x defines--.

Line 40, " $\alpha$ " should read --a--.

Line 56, "asymmetry" should read --asymmetry--.

COLUMN 11

Line 49, "inage" should read --image--.

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COLUMN 12

Line 25, " $\sum_{n=1}^N$ " should read --  $\sum_{n=1}^N$  --.

Line 33, " $\sum_{n=1}^N$ " should read --  $\sum_{n=1}^N$  --.

COLUMN 15

Line 28, "a x" should read --an x--.

COLUMN 16

Line 43, " $C_{(B-3)}$ " should read -- $C_{(B-3)}$ --.

Line 44, "and  $\perp$ " should read --and  $\perp$ --.

COLUMN 17

Line 48, "now" should read --now be--.

COLUMN 18

Line 2, "making" should read --marking--.

Line 44, "such" should read --such as--.

Line 53, "art" should read --art.--.

COLUMN 19

Line 67, "step" should read --steps--.

COLUMN 20

Line 12, "I, in n," should read --in--.

Line 23, "xdefines" should read --x defines--.

Line 42, "claim 7" should read --claim 7,--.

Line 52, "claim 9" should read --claim 9,--.

Line 56, "claim 9" should read --claim 9,--.

Line 60, "claim 9" should read --claim 9,--.

Line 61, " $w_n(r, \theta)$  contains" should read -- $w_n(r, \theta)$  contains--.

Line 64, "step" should read --steps--.

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COLUMN 21

Line 5, "and" should read --a, and--.  
Line 10, "step" should read --steps--.  
Line 33, "xdefines" should read --x defines--.  
Line 38, "step" should read --steps--.  
Line 61, "xdefines" should read --x defines--.

COLUMN 22

Line 24, "xdefines" should read --x defines--.  
Line 52, "farther" should read --further--.  
Line 55, "step" should read --steps--.  
Line 62, "constant;" should read --constant; and--.

COLUMN 23

Line 1, "claim 31" should read --claim 31,--.  
Line 12, "xdefines" should read --x defines--.  
Line 55, "xdefines" should read --x defines--.  
Line 67, "r" should read --r--.

COLUMN 24

Line 34, "xdefines" should read --x defines--.  
Line 52, "claim 49" should read --claim 49,--.  
Line 62, "claim 51" should read --claim 51,--.  
Line 66, "claim 51" should read --claim 51,--.

COLUMN 25

Line 3, "claim 51" should read --claim 51,--.  
Line 43, "xdefines" should read --x defines--.

COLUMN 26

Line 4, "xdefines" should read --x defines--.  
Line 35, "xdefines" should read --x defines--.  
Line 67, "constant;" should read --constant; and--.

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COLUMN 27

Line 7, "claim 71" should read --claim 71,--.

Line 9, "⊗{" should read --⊗--

Line 16, "⋈g" should read --⋈{g--.

Line 17, "⋈defines" should read --⋈ defines--.

Line 60, "⋈defines" should read --⋈ defines--.

COLUMN 28

Line 40, "⋈defines" should read --⋈ defies--.

COLUMN 29

Line 11, "⋈defines" should read --⋈ defines--.

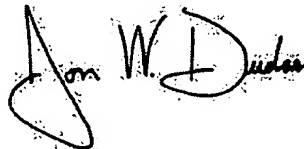
Line 12, "θand" should read --θ and ϕ--.

COLUMN 30

Line 5, "constant;" should read --constant; and--.

Signed and Sealed this

Second Day of January, 2007

A handwritten signature in black ink, appearing to read "Jon W. Dudas". The signature is stylized with a large, looping initial "J" and a distinct "D".

JON W. DUDAS  
*Director of the United States Patent and Trademark Office*